

hypothetical prote				
hypothetical prote				
MG277 homolog P11-				
secDp protein, pro-				
tein F13D11.3 [
NADH dehydrogenas				
probable membrane				
hypothetical prote				
transport ATP-bind				
hypothetical prote				
NADH dehydrogenas				
probable membrane				
hypothetical prote				
probable O-antigen				
proline/betaine tr				
hypothetical prote				
US-10-003-356-5				
1986				
1 LPHSVCTDVCPGTRGFVQ.....TVSTVLDDRVLYMCPLKLQ 380				
BLOSUN62				
scoring table:				
99.5	5.0	344	2	T30584
45				
44	100	5.0	461	H64516
43	100	5.0	437	H47010
42	100.5	5.1	825	T46311
41	100.5	5.1	610	T46311
40	102	5.1	540	T43747
39	102	5.1	405	F89339
38	103	5.2	592	T2596
37	103	5.2	552	A0703
36	103	5.2	411	D84349
35	103	5.2	459	D84349
34	104	5.2	437	A88942
33	104.5	5.3	1400	A81672
32	105	5.3	887	S7378
31	108	5.4	464	B64173
30	108.5	5.5	403	G71336
Copyright (c) 1993 - 2005 Compugen Ltd.				
1 protein - protein search, using sw model				
run on: February 16, 2005, 16:16:11 ; Search time 15:6881 Seconds				
(without alignment)				
2330.584 Million cell updates/sec				
title: US-10-003-356-5				
perfect score: 1986				
sequence: 1 LPHSVCTDVCPGTRGFVQ.....TVSTVLDDRVLYMCPLKLQ 380				
scoring table: BLOSUN62				

ALIGNMENTS

Searched:	283416 seqs,
	96216763 residues
	total number of hits satisfying chosen parameters.
	283416

RESULT 1
159362

calcium/polyvalent cation-sensing receptor precursor - rat
C:Species: Rattus norvegicus (Norway rat)
C:Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
C:Accession: I5932; A55594

PIR 79: * Listing first 45 summaries
Academic Database : PIR 79: * Listing first 45 summaries

A:Reference number: 159362; MUID: 95241465; PMID: 774534
A:Accession: I59362
A:Status: translated from GB/EMBL/DDBJ

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

A, Proc. Natl. Acad. Sci. U.S.A. 92, 131-135, 1995
A, Title: Cloning and functional expression of a rat kidney extracellular calcitonin receptor
A, Reference number: A55594; PMID: 95116508; PMID: 7816602

Result No.	Score	Query	Match	Length	DB	ID	Description
A5554	113.0	ABCB1	ABCB1	113	Uniprot	P00901	ATP-binding cassette, subfamily B member 1

A; Cross-references: GB-U01034
A; Experimental source: kidney
C; Keywords: calcium; glycoprotein; phosphoprotein; transmembrane protein

4	70.5	35.7	1085	2	S404/T6	Ca ²⁺ -sensing rec
5	433.5	21.7	858	2	JC7683	tate receptor TIR
6	415.5	20.9	879	2	JC7160	metabotropic Gluta
						r; L-170/Domain: signal sequence #status predicted <S10>
						F; 187-212/Region: hydrophobic
						F; 613-635/Domain: Transmembrane #status predicted <TM1>

/	4.1-3	20.7	8/3	2	transmembrane	predicted
8	409.5	20.6	JH0561	2	#status	P;683-700/Domain:
9	397.5	20.0	872	2	#status	P;725-744/Domain:
			JC2112	2	#status	predicted

F-794/Binding site: phosphate (Ser) (covalent) (by protein kinase C) #status F
F-899,901/Binding site: phosphate (Ser) (covalent) (by protein kinase A) #status F

Qy	1	LPHASVCTDVCPPGTGRRGVOREPPICCFDSTIPCAHDGHVSRKPGEREBCOQGEDYMSNAQKS	60
20	284..5	14..3	551
21	207..5	10..4	1099
22	207..5	10..4	1099

537 VPFPNCRSRDCQAGTRKG11GEPPIFCFECPPGEYSQRTDASACDPDDFFNSNENNT 59
Db

657	SLLCCPSSSLFFPISEPDWTCRLRQPAFGISPVLCISCLVETNRVILVF---EAKIP-T	712				
181	SMHPYRK-----IVLVLISVAIGICATAYLILEPPMVYKNNMESQNTKILGGNEIS	232				
713	SFH---RKWGLNLTQFLCPTPMQLICIWLYTAPPSSTRNHEDELIFITHEGS	769				
233	IEFFYSMFGIDAFLALLCFLTTFYAROLPDNTYEGRKCTTGFMLVFFIWMSPVYPLSTK	292				
770	LMAQSLIGTYCLIAACPFAPSKRLPKENPNEAKRIFTSMLVWVWVSPVAYASTY	829				
293	GKFVMAVEFIAASSHGLGICIFAPKCLLILRPERNTSEVCGRTSNDNCIQTSAF	352				
830	GKFVSAVEVTAIIAASFGNLACTFENKVYILLFKPSRNTEEV- RSSTAHAFAKVAARA 887					
353	V-----SSLNNNTVS 363					
888	TLLRPNISPKRSSLGGSSTGS 908					
RESULT 2						
A56715	calcium receptor (clone phPCaR-4.0) - human					
C:Species: Homo sapiens (man)						
C:Date: 19-Oct-1995 #sequence_revision 19-Oct-1995 #text_change 01-Dec-2000						
C:Accession: #B49341; #A9419; B493419; C49419						
R:Garrett, J. E.; Capuano, I. V.; Hammerland, L. G.; Hung, B. C.P.; Brown, E.M.; Hebert, S.C.						
J. Biol. Chem., 270, 12919-12925, 1995						
A:Title: Molecular cloning and functional expression of human parathyroid calcium receptor						
A:Reference number: A66715; MUID:9579439; PMID:7795551						
A:Accession: A56715						
A:Status: preliminary						
A:Molecule type: mRNA						
A:Residues: 1-1078 <GAR>						
A:Cross-references: GB:U20759; NID:9683744; PIDN:AAA86503.1; PMID:g683745						
R:Bearce, S.H.S.; Thakker, R.V.						
R:Submitted to the EMBL Data Library, August 1994						
A:Reference number: S49341						
A:Accession: A49419						
A:Status: preliminary						
A:Molecule type: DNA						
A:Residues: 1-180 'Q' 182-989 'R' 991-1078 <REA>						
A:Cross-references: ENMBL:881086						
A:Experimental source: family N						
A:Note: sequence inconsistent with nucleotide translation						
A:Note: sequence modified after extraction from NCBI backbone						
A:Note: 186-Arg mutation is associated with familial hypocalciuric hypercalcemia and nec						
A:Note: sequence extracted from NCBI backbone (NCBIN:142453)						
A:Accession: B49419						
A:Status: preliminary						
A:Molecule type: DNA						
A:Residues: 289-303 <PO2>						
A:Experimental source: family E						
A:Note: sequence modified after extraction from NCBI backbone						
A:Note: 298-Lys mutation is associated with familial hypocalciuric hypercalcemia and nec						
A:Note: sequence extracted from NCBI backbone (NCBIN:142453)						
A:Accession: C49419						
A:Status: preliminary						
A:Molecule type: DNA						
A:Residues: 788-802 <PO3>						
A:Experimental source: family J						
A:Note: sequence modified after extraction from NCBI backbone						
A:Note: 796-Trp mutation is associated with familial hypocalciuric hypercalcemia and nec						
A:Note: sequence extracted from NCBI backbone (NCBIN:142453)						
C:Keywords: glycoprotein, receptor, transmembrane Protein						

Db	780 LMAIGFLIGYCTLLAAICFFAFAKSRSKLUPEFNFEAKFTPSMLIIFPIWISIIPAYASTY	839	A; Residues: 1-858 <KIT> A; Cross-references: UNIPROT:Q91VA4 ; DDBJ:AB049994 C; Comment: This protein, a seven-transmembrane receptor, serves as a mediator of the si: C; Genetics: A; Gene: tlr3 A; Map position: 4 C; Superfamily: metabotropic glutamate receptor 4 C; Keywords: transmembrane protein
Qy	293 GKFMAVTFIAASSHGLGCFAPKCLLILRPERNTSIEVCGRYSITNDNCIQLTSAF	352	
Db	840 GKFSAVETIAALLASPGILLACIFPKNYIILFKPSRNTIEEV.-RCSTAAAHAKVYARA	897	
Qy	353 V-----SSELNNNTVST 364		
Db	898 TLRSNVSRKRSSSLGGSTGST 919		
RESULT 4			
C; Species: Bos primigenius taurus (cattle)			
C; Accession: S40476			
R; Brown, B.M.; Gamba, G.; Riccardi, D.; Lombardi, M.; Butters, R.; Kifor, O.; Sun, A.; H. Nature 366, 575-580, 1993			
A; Title: Cloning and characterization of an extracellular Ca(2+)-sensing receptor from bovine testis			
A; Reference number: S40476; PMID:9407182; PMID:8255296			
A; Status: preliminary			
A; Molecule type: mRNA			
A; Residues: 1-1085 <BRO>			
A; Cross-references: UNIPROT:P35384; GB:S67307; NID:9453108; PIDN:AA29171.1; PID:9453109			
Query Match Score 431.5; DB 2; Length 858;			
Best Local Similarity 30.6%; Pred. No. 3.5e-27;			
Matches 105; Conservative 66; Mismatches 163; Indels 9; Gaps 3;			
Qy 1 LPHSVCTDVCPPGTR --GFVQRBPICCPDSIPCADGHVSRKPGRECEQGDTYSNA 57			
Db 499 VPVSOCRSROCKDQGQVRVKGFGH ---CCYDCVDCAGSYRKHPDDFTCPNQDQSPE 554			
Qy 58 QKSECVLRKEVEVTAYDEALGFTLVILSVFGAFTLVATAVTVIHRHTPLVNSDWQLGFL 117			
Db 555 KSTACLPKRPKFLAWGPVVLSSLILCLVIGLALALAGLSYTHWDSPVQASGSQFCP 614			
Qy 118 IQVSLIMMLSMMLFDKPHNWSCMAGQVTLALGSPSCLSLCULGKTTSLPLAYR -1SKS 175			
Db 615 GLICLGHFLCSLVPSPRSSAACLQPMALHPLTCGCLSTFLQRAATFVESELPSWA 674			
Qy 176 KTQLTSMHPLYRKITIVLISLVAEIGCTAYLLEPPMVYKMEQSNTKILLCNCNEISLEP 235			
Db 675 NWLCSYLRGLIWAHLVVLATEYEAALCAWYLIAFPVPTDVSVLPTEVLRCHYRSWS 734			
Qy 236 LYSMFGIDAFLALCFLTTFYAROLPDNNYERGKCIITGMLYFFIIMSFPVPLSTKGKF 295			
Db 735 LGVWHITNAMLAFLCFLGTFLVSQSPQRYNARGLTFAMLAYFITWVFSFPVLLANQVAY 794			
RESULT 6			
Qy 121 SUIMLMSMLFDKPHNWSCMAGQVTLALGSPSCLSLCULGKTTSLPLAYRISKSTQLT 180			
Db 658 SUICCFSSLFFGEPOWTCRQPAGEISFVCLISLVIKCNRLVP ---EAKIPT-T 713			
Qy 181 SMHPLYRK-----IVLISLVAEIGCTAYLLEPPMVYKMEQSNTKILLCNCNEIS 232			
Db 714 SFH--RKGWGLNQFLQFLVFLCTFMQIYVCAIWNTAPSSYTRNHLEDELLPITCHEGS 770			
Qy 233 IEFYSMGIDAFLALCFLTTFVARQUDPNYEGKCIITGMLVFFIIMSFPVPLSTK 292			
Db 771 LMAIGFLIGYCTLLAAICFFAFAKSRSKLUPEFNFEAKFTPSMLIIFPIWISIIPAYASTY 830			
Qy 233 GKFMAVTFIAASSHGLGCFAPKCLLILRPERNTSIEVCGRYSITNDNCIQLTSAF	352		
Db 831 GKFSAVETIAALLASPGILLACIFPKNYIILFKPSRNTIEEV.-RCSTAAAHAKVYARA	888		
Qy 353 V-----SSELNNNTVST 364			
Db 889 TLRSNVSRQRSSSLGGSTGST 910			
RESULT 5			
C; Species: Mus musculus (house mouse)			
C; Accession: JC7683			
R; Kitasawa, M.; Kusakabe, Y.; Miura, H.; Ninomiya, Y.; Hino, A.			
A; Reference number: JCT683; PMID:21222875; PMID:11322794			
A; Content: tongue			
A; Accession: JC7683			
A; Molecule type: mRNA			
Query Match Score 415.5; DB 2; Length 879;			
Best Local Similarity 29.1%; Pred. No. 7.2e-26;			
Matches 111; Conservative 69; Mismatches 179; Indels 23; Gaps 9;			
Qy 1 LPHSVCTDVCPPGTRGVQREPICCPDSIPCADGHVSRKPGRECEQGDTYSNA 55			
Db 504 VPTSQCSDPCAPNEMN-MQPQDVCWCWICP-----EPYBYLTDFTCMDCGQCWP 555			

Qy 56 NAKSECVLKEVEYLAYDAIGFTLVLSVFGAVVLAATAVYVHRTPLYNASDWQLG 115
 Db 556 TADLGCGYNLPEDIAWGPVTCIITVFKHNNTPLVAGRELC 615
 Qy 116 FLIQVSLIMLSSMLPDKPHNWSMAGQVTLAIGFSCLSLCIGTSLSFLAYRISKS 175
 Db 616 YILLFGVSLSYCMTPFPIKAPSPVICALRLGLTSFLAICSAITKNCIARIFDGKTN 675
 Qy 176 KTQLTS-MPLYRKIVLIVLIVSVAEIGCTAYLILPEPMV--YKNMESQNTKILGNEIS 232
 Db 676 GAQRPKFISPSQVFLPCKVHIVLQV1WMSVWLLETGTRRYLPERET-VILKCNVKD 734
 Qy 233 IEFLYSMFGIDAFIAFLCLTFLVYAROLPDNYEGKCTIFGMLVFFLWMSFVPLVSTK 292
 Db 735 SSMLISL-TDVLVILCTVYAFKTRKCPNENFAKPGFTMVTTCIILWALAFPFLFVTS 793
 Qy 293 GKFKADEVIFAILASSHG--LLGCIFAPPKCLLILRPERENTSETVCGRVSTIDNCIQLTS 350
 Db 794 SDYRVQTTMCMISVLSLGSFVGLCFLAPKXHIVLFQPRQNN--VVTHRLHLNRFSVCTA 850
 Qy 351 AFVSSLENNNTVSTLDDRLI 372
 Db 851 TTYQSASSASTYVPTVNGREVL 872

RESULT 8

Qy 293 GKFKADEVIFAILASSHG--LLGCIFAPPKCLLILRPERENTSETVCGRVSTIDNCIQLTS 350
 Db 794 SDYRVQTTMCMISVLSLGSFVGLCFLAPKXHIVLFQPRQNN--VVTHRLHLNRFSVCTA 850
 Qy 351 AFVSSLENNNTVSTLDDRLI 372
 Db 851 TTYQSASSASTYVPTVNGREVL 872

RESULT 7

Db JH0562
 A; Cross-references: UNIPROT:P31421
 C; Species: Rattus norvegicus (Norway rat)
 C; Date: 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 09-Jul-2004
 C; Accession: JH0562
 R; Tanabe, Y.; Masu, M.; Ishii, T.; Shigemoto, R.; Nakanishi, S.
 Neuron 8, 169-179, 1992
 A; Title: A family of metabotropic glutamate receptors.
 A; Reference number: JH0561; MUID:92110002; PMID:1309649
 A; Accession: JH0561
 A; Molecule type: mRNA
 A; Residues: 1-872 <TAN>
 A; Cross-references: UNIPROT:P31421
 A; Experimental source: brain
 C; Comment: This protein is coupled to a G protein and evokes a variety of functions by m
 R; Tanabe, Y.; Masu, M.; Ishii, T.; Shigemoto, R.; Nakanishi, S.
 Neuron 8, 169-179, 1992
 A; Title: A family of metabotropic glutamate receptors.
 A; Reference number: JH0561; MUID:92110002; PMID:1309649
 A; Accession: JH0562
 A; Molecule type: mRNA
 A; Residues: 1-879 <TAN>
 A; Cross-references: UNIPROT:P31422
 A; Experimental source: brain
 C; Comment: This protein is coupled to a G protein and evokes a variety of functions by m
 R; Tanabe, Y.; Masu, M.; Ishii, T.; Shigemoto, R.; Nakanishi, S.
 Neuron 8, 169-179, 1992
 A; Title: A family of metabotropic glutamate receptors.
 A; Reference number: JH0561; MUID:92110002; PMID:1309649
 A; Accession: JH0562
 A; Molecule type: mRNA
 A; Residues: 1-879 <TAN>
 A; Cross-references: UNIPROT:P31422
 A; Experimental source: brain
 C; Comment: This protein is coupled to a G protein and evokes a variety of functions by m
 R; Tanabe, Y.; Masu, M.; Ishii, T.; Shigemoto, R.; Nakanishi, S.
 Neuron 8, 169-179, 1992
 A; Title: A family of metabotropic glutamate receptors.
 A; Reference number: JH0561; MUID:92110002; PMID:1309649
 A; Accession: JH0562
 A; Molecule type: mRNA
 A; Residues: 1-879 <TAN>

Query Match

Qy 1 LPHSVCTDVCPGTPGTGRGFVRPPICEDSIPICADGHYSRKGERECBOCGDYSWNAOKS 60
 Db 495 LPASRCSEPCLQNKEVRS-VQGEVCWLCWLCIPQP--YEYRLDEFTACDGGLGTYWNASLT 551

Query Match

Qy 61 ECVLKENVLYAYDAIGFTLVLSVGAFLVAVYVHHTPLYNASDWQLGFLIQV 120
 Db 552 GCFELFQEYIRKGDAWGPVTCIACIGALATIPLVYKASGRELYLIG 611
 Qy 121 SLIMLSSMFLIDKPHNWSMAGQVTLAIGFSCLSLCIGTSLSFLAYRISKSTKLT 180
 Db 612 GVPLCYCMTFVFIANKSTAVCTLRIGLGTAFSVCYSLITKNTARIFFGAREGAORP 671

Query Match

Qy 56 NAKSECVLKEVEYLAYDAIGFTLVLSVGAFLVAVYVHRTPLYNASDWQLG 115
 Db 556 TADLGCGYNLPEDIAWGPVTCIITVFKHNNTPLVAGRELC 615
 Qy 116 FLIQVSLIMLSSMLPDKPHNWSMAGQVTLAIGFSCLSLCIGTSLSFLAYRISKS 175
 Db 616 YILLFGVSLSYCMTPFPIKAPSPVICALRLGLTSFLAICSAITKNCIARIFDGKVN 675
 Qy 176 FLIQVSLIMLSSMLPDKPHNWSMAGQVTLAIGFSCLSLCIGTSLSFLAYRISKS 175
 Db 732 L-AYNTLIALCTLYFKTRKCPNENFAEKPLFQPRQNN--VVTHRLHLNRFSVCTA 790
 Qy 299 VEIPAIASSHG--LIGCIFAPKLILLPERNTSBIVCGRVSTT--DNCLQLTSAFVS 354

Db	791 TTTMCVSVLSGSVVLGCLFAPKHLIIIFQPKRN---VVSHRAPTSREGSAAAPRASANLG	847	A;Cross-references: UNIPROT: P23385; GB: M61099; NID: 9397806; PMID: AAA19497.1; PID: 9204461; A;Experimental source: cerebellum A;Note: sequence extracted from NCBI backbone (NCBIP: 60785)
Qy	355 SELNNNTYSTVLDDRVLI	372	R;Masu, M.; Tanabe, Y.; Tsuchida, K.; Shigemoto, R.; Nakaniishi, S. Nature 349, 760-765, 1991
Db	848 QGGSQFPTVCNREVV	865	A;Title: Sequence and expression of a metabotropic glutamate receptor. A;Reference number: S15362; MUID: 91156047; PMID: 1847995
RESULT 9	JC2132		A;Status: preliminary A;Accession: S15362 A;Residues: 1-1180 <MIN>
	metabotropic glutamate receptor 5 A - human		C;Species: Homo sapiens (man)
	C;Date: 28-Aug-1985 #sequence_revision 07-Oct-1994 #text_change 05-Jan-1996		C;Accession: JC2132
	R;Minakami, R.; Katsuki, P.; Yamamoto, T.; Nakamura, K.; Sugiyama, H.		A;Title: Molecular cloning and the functional expression of two isoforms of human metabotropic glutamate receptor 5 A - human nucleotide binding protein.
	Biochem. Biophys. Res. Commun. 199, 1136-1143, 1994		A;Residues: 1-1180 <MAX>
	A;Reference number: JC2131; MUID: 94197696; PMID: 7908515		C;Keywords: glycoprotein; neurotransmitter receptor; transmembrane protein
	A;Accession: JC2132		P:580_604/Domain: transmembrane #status predicted <TM1> P:517_637/Domain: transmembrane #status predicted <TM2> P:644_664/Domain: transmembrane #status predicted <TM3> P:694_714/Domain: transmembrane #status predicted <TM4> P:738_759/Domain: transmembrane #status predicted <TM5> P:773_794/Domain: transmembrane #status predicted <TM6> P:803_827/Domain: transmembrane #status predicted <TM7>
Qy	4 SVCTDVCPPGTGRGVQREPICCPDSIPCADGHVSRSRKPGERCEQGDBDYWSNAQKSECV	63	Query Match Score 20.0%; Best Local Similarity 20.0%; Pred. No. 2.9e-24; Matches 98; Conservative 99; Mismatches 157; Indels 19; Gaps 7;
Db	522 SVCSBPCQKIVRKGBVSCWCIWPACKENBFVQ--DEFTCRACDGWWRNAELTCB	579	4 SYCTDVCPPGTGRGVQREPICCPDSIPCADGHVSRSRKPGERCEQGDBDYWSNAQKSECV 63 522 SVCSBPCQKIVRKGBVSCWCIWPACKENBFVQ--DEFTCRACDGWWRNAELTCB 579
Qy	64 LKEVYELAYDEALGFTLVLISVPGAFVFLAVTAVVYIIRHPTPLVNASDWQLGFLIQVSLI	123	64 LKEVYELAYDEALGFTLVLISVPGAFVFLAVTAVVYIIRHPTPLVNASDWQLGFLIQVSLI 123
Db	580 PIPVRYLEWSDLESITATAIFASCIGLIVLTFLPTFLVYRDTPVVKSSRELCTYLILACIF	639	580 PIPVRYLEWSDLESITATAIFASCIGLIVLTFLPTFLVYRDTPVVKSSRELCTYLILACIF 639
Qy	124 IMUJSSMLFDIKPHNWMSMAGOVTALGFSLCLSLCLGKTSSLPLATRISKSTQQLTSMH	183	124 IMUJSSMLFDIKPHNWMSMAGOVTALGFSLCLSLCLGKTSSLPLATRISKSTQQLTSMH 183
Db	640 LGYVCPFTLIAKPTTSCYLQVLGVSSAMCYSLVTKTRN-TARTLAGSKKKKICTRK	697	640 LGYVCPFTLIAKPTTSCYLQVLGVSSAMCYSLVTKTRN-TARTLAGSKKKKICTRK 697
Qy	184 PLV-----RKITVLISVLAEGICATAYLILBPMVYKQMESQNTKILGNCNEISIEFLYS	238	184 PLV-----RKITVLISVLAEGICATAYLILBPMVYKQMESQNTKILGNCNEISIEFLYS 238
Db	698 PRENSAVAQVITASLISVQVTLVTVTLLIMBPMPLISYPSIK-EVYLICNTSNLG-VVA	755	698 PRENSAVAQVITASLISVQVTLVTVTLLIMBPMPLISYPSIK-EVYLICNTSNLG-VVA 755
Qy	239 MFGDIAFLALCPLTTFYARQLPDNYYEGKCITPGLVPPVILMSPVYVPLSTKGGKPKMA	298	239 MFGDIAFLALCPLTTFYARQLPDNYYEGKCITPGLVPPVILMSPVYVPLSTKGGKPKMA 298
Db	756 PVSYNGLILMSCTYVAPATRNPYVPAFNTEAKTIAFTMTYTCIIWLAFPIYFGS--NYKII	813	756 PVSYNGLILMSCTYVAPATRNPYVPAFNTEAKTIAFTMTYTCIIWLAFPIYFGS--NYKII 813
Qy	299 VEPFAIASSRGHGLGCIFAPKCLLILLPERN----TSBV	335	299 VEPFAIASSRGHGLGCIFAPKCLLILLPERN----TSBV 335
Db	814 TICPAVSLSVTVVALGCMPTPRVYIIAKPERNVRAFTSDVV	856	814 TICPAVSLSVTVVALGCMPTPRVYIIAKPERNVRAFTSDVV 856
Qy	RESULT 11		RESULT 11
Db	JC2131		JC2131
	metabotropic glutamate receptor 5 B - human		C;Species: Homo sapiens (man)
	C;Date: 28-Aug-1985 #sequence_revision 07-Oct-1994 #text_change 05-Jan-1996		C;Accession: JC2131
	R;Minakami, R.; Katsuki, P.; Yamamoto, T.; Nakamura, K.; Sugiyama, H.		A;Title: Molecular cloning and the functional expression of two isoforms of human metabotropic glutamate receptor 5 B - human nucleotide binding protein.
	Biochem. Biophys. Res. Commun. 199, 1136-1143, 1994		A;Residues: 1-1212 <MIN>
	A;Accession number: JC2131; MUID: 94197696; PMID: 7908515		A;Accession: JC2131
	A;Molecule type: mRNA		C;Comment: This protein is coupled to guanine nucleotide binding proteins; receptor: transmembrane protein
	A;Residues: 1-1212 <MAX>		C;Keywords: glycoprotein; neurotransmitter; receptor; transmembrane protein
Qy	184 PLV-----RKITVLISVLAEGICATAYLILBPMVYKQMESQNTKILGNCNEISIEFLYS	238	184 PLV-----RKITVLISVLAEGICATAYLILBPMVYKQMESQNTKILGNCNEISIEFLYS 238
Db	685 PRM5ACAGLVIATPLICLQGLTVALPTIMEPPDMDHYPSIR-EVYLICNTNLG-VVT	742	685 PRM5ACAGLVIATPLICLQGLTVALPTIMEPPDMDHYPSIR-EVYLICNTNLG-VVT 742
Qy	239 MFGDIAFLALCPLTTFYARQLPDNYYEGKCITPGLVPPVILMSPVYVPLSTKGGKPKMA	298	239 MFGDIAFLALCPLTTFYARQLPDNYYEGKCITPGLVPPVILMSPVYVPLSTKGGKPKMA 298
Db	743 PLVQYLRNGDPPEIAVVFACUGLTLATFLVTVFLYRDTPVVKSSRELCTYLILAGC	626	743 PLVQYLRNGDPPEIAVVFACUGLTLATFLVTVFLYRDTPVVKSSRELCTYLILAGC 626
Qy	299 VEPFAIASSRGHGLGCIFAPKCLLILLPERN----TSBV	335	299 VEPFAIASSRGHGLGCIFAPKCLLILLPERN----TSBV 335
Db	801 TMCPVSLSATVALGCMPTPKVYIILAKPERNVRAFTSDVV	843	801 TMCPVSLSATVALGCMPTPKVYIILAKPERNVRAFTSDVV 843
RESULT 10			RESULT 10
	G protein-coupled glutamate receptor - rat		G protein-coupled glutamate receptor - rat
	C;Species: Rattus norvegicus (Norway rat)		C;Species: Rattus norvegicus (Norway rat)
	C;Date: 04-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004		C;Date: 04-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
	R;Ihoumadi, X.M.; Kuijper, J.L.; Gilbert, T.L.; Haldeman, B.A.; O'Hara, P.J.; Mulvihill, Science 252, 1318-1321, 1991		R;Ihoumadi, X.M.; Kuijper, J.L.; Gilbert, T.L.; Haldeman, B.A.; O'Hara, P.J.; Mulvihill, Science 252, 1318-1321, 1991
	A;Title: Cloning, expression, and gene structure of a G protein-coupled glutamate receptor		A;Title: Cloning, expression, and gene structure of a G protein-coupled glutamate receptor
	A;Accession number: A41939; S15362		A;Accession number: A41939; S15362
	A;Molecule type: nucleic acid		A;Molecule type: nucleic acid
	A;Residues: 1-1199 <HOU>		A;Residues: 1-1199 <HOU>
Qy	4 SVCTDVCPPGTGRGVQREPICCPDSIPCADGHVSRSRKPGERCEQGDBDYWSNAQKSECV	63	4 SVCTDVCPPGTGRGVQREPICCPDSIPCADGHVSRSRKPGERCEQGDBDYWSNAQKSECV 63
Db	509 SVCSBPCQKIVRKGBVSCWCIWPACKENBFVQ--DEFTCRACDGWWRNAELTCB	566	509 SVCSBPCQKIVRKGBVSCWCIWPACKENBFVQ--DEFTCRACDGWWRNAELTCB 566

C:Superfamily: metabotropic glutamate receptor 4

Query Match 17.8%; Score 353; DB 2; Length 99;

Best Local Similarity 26.3%; Pred. No. 9 8e-21; Matches 98; Conservative 75; Mismatches 179; Indels 20; Gaps 11;

Qy 2 PHSVCTDYPGPGFVOREPICKPCAGDHYSRKPGRECECGEDYWSNAQKSE 61

Db 607 PVSUCSLLPKIGPRQLXIDBQ-CCWASCSKCB-.YEYLNINETHVGCGQWPDKRG 663

Qy 62 CV--LKEVEYLAYDEAEGFLVILSVGAFVVLAVTAVVYIHRHTPLYNASDWQLGFLIQV 118

Db 664 CFDSLSQLSKYMRWRMSVSLVPLPTLAVFGIILATLFVTVVYNETPVVKASGRELSYIL 723

Qy 119 QVSLLIMLSSMPLIDRHNWSMAGQVTLAUGFSLCISCLAGKTSSLFLAVRISKRTQ 178

Db 724 LISMIMCYCMFTVLLSKESAIKAIRTGIGPFLSYAMSFKTKNTRIFRIS-TRSAQR 782

Qy 179 LTSMHPLYRKIVLIVSLVAEIGICTA-YLLEPPMTYKNMESQNTKILGNEISIEFL 236

Db 783 PRFSPISPS--VVNTAMLAGVQJGLSLWLSVVP-GRHHYPTDQVVLTCNVDPDHFL 839

Qy 237 YSMFGIDAPFLALLCPFLTFVARQLPDNTYEGKCITFGMLVFPIIIMSFVPUVYLSTKGKPK 296

Db 840 YSL-AYDFLFLVLCITYAVKTRKVPEPNENETKPIGFSMYYTCVWMSWIFFPFGTSDFQ 898

Qy 297 MAVE--IIPAILASHGLIUCIAFPKCLILLRBRNT---SEIVCRVTS-TTDNCIQLT 349

Db 899 IQTSSLCLISMSANVALACIFSPKLWILFEKHONVKQGEGESMLNKSSRLGNCSSRL 958

Qy 350 SAFTSSELNNTT 361

Db 959 CANSIDEPNQYT 970

RESULT 15

A49874

metabotropic glutamate receptor 7 - rat

N Alternate names: metabotropic glutamate receptor mGluR7

C Species: Rattus norvegicus (Norway rat)

C Date: 02-Jul-1996 #Sequence_revision 02-Jul-1996 #text_change 09-Jul-2004

C Accession: A49874; 157954

R. Okamoto, N.; Hori, S.; Akazawa, C.; Hayashi, Y.; Shigemoto, R.; Mizuno, N.; Nakaniishi, J. Biol. Chem. 269, 1231-1236, 1994

A Title: Molecular characterization of a new metabotropic glutamate receptor mGluR7 coupl

A Accession: A49874; Reference number: A49874; MUIID:94117433; PMID:8288585

A Status: preliminary; translated from GB/EMBL/DDJB

A Molecule type: mRNA

A Cross-references: UNIPROT:P35400; GB:D16817; NID:9458728; PID:BAA04092.1; PID:9458729

R. Saugstad, J.A.; Kinzie, J.M.; Mulvihill, E.R.; Segerson, T.F.; Westbrook, G.L.

Mol. Pharmacol. 45, 367-372, 1994

A Title: Cloning and expression of a new member of the L-2-amino-4-phosphonobutyric acid

A Accession: 157954; Reference number: 157954; MUIID:94195260; PMID:814723

A Status: preliminary; translated from GB/EMBL/DDJB

A Molecule type: mRNA

A Residues: 1-915 <RE2>

A Cross-references: EMBL:U06832; NID:9459557; PID:AAA20655.1; PID:9459558

C Genetics:

A Gene: MGUR7

C Superfamily: metabotropic glutamate receptor 4

C Keywords: neurotransmitter receptor

Query Match 16.3%; Score 324; DB 2; Length 915;

Best Local Similarity 26.1%; Pred. No. 2e-18; Matches 93; Conservative 71; Mismatches 153; Indels 40; Gap_B 12;

Qy 1 LPHSVCTDYPGPGFVQREPCCPFSIPIKADGHYSRKPGRECECGDQYWSNAQKS 60

Db 518 IPSSVCTLPCKPGQ-RKRTQKGTPCCWTCBPC-DGY-QYQFDDEMTCOHCPTYDORPNERT 574

61 ECVLKEVEYLAYDEALGFTLVILSVGAFFVVLAVTAVVYIHRHTPLYNASDWQLGFLIQV 120
 575 GCONIPKLEWHSPWAVIPYPLAMGLIATIFVMAFPIRDTPITRASGRBLSYVLT 634
 121 SLIMLISSMLPIDKPWNWSMAGQVFTALGFSLCLSCLLGKTSISLPLAYRI-SKSSTQL 179
 635 GFLCYVITELMIAKPDYAVCSFRVPLGLGNCISVYALLXTNRI---YRIFEGQGRKSV 691
 180 TSMHPLYRKIVLIVSILABIGICTAYL-----LEPPMV-----YKNNMBSQN 221
 692 TAPR-----LISPISQLAI-TSSUJSVQLGVFTWFGVDPPNIIIDYDEHKTMNPSEQ 742
 222 TKLILGCNEISIBFLYSMFGIDAFLAFLCPLTTFVARQLPDNYYEGKCITFGMLVFFLW 281
 743 ARGVLKCDIDTQIICSL-GTSILMLAVTCVYAIKTRGVOPENFNEAKPIGFTMYTCIVW 801
 282 MSFVPUVLIST-KGKPKMVAE---IPAILASSHGLLGCIAPAKCLLILRPERNTSE 333
 802 LAFFPIPFGTQASAEKLYIQTCTTISMNLSASVALGMYMPKXYLITFHPELNVQK 858

Search completed: February 16, 2005, 16:37:54
 Job time : 17.6881 secs

THIS PAGE LEFT BLANK